

Amendments to the Specification:

Please amend Table 1 on page 9 of the specification as follows:

target gene	shRNA sequence /SEQ ID NO	Reference
CDH-1 p53 CDC20	TgagaagtctccagtcagTTCAAGAGActgactgggagacttctca (<u>SEQ ID NO: 19</u>) GactccagtggtaattctacTTCAAGAGAgtagattaccactggagtc (<u>SEQ ID NO: 20</u>) CggcaggactccgggccgaTTCAAGAGAtcggcccgagtcctgccg (<u>SEQ ID NO: 21</u>)	Brummelkamp et al., Science, 296: 550-3 (2002).
CYLD	CctcatgcagttctcttTTCAAGAGAcaaagagaactgcatgagg (<u>SEQ ID NO: 22</u>)	Kovalenko et al, Nature, 424:801-5 (2003).
Ras-Gap	AagatgaagccactccctatttCAAGAGAAaatagggagtggcttcatt (<u>SEQ ID NO: 23</u>)	Kunath et al., Nature Biotechnology, 21:559-561 (2003).
tubulin	GacagagccaagtggactcACAgagtccacttggctctgtc (<u>SEQ ID NO: 24</u>)	Yu et al., PNAS, 99: 6047-52 (2002)
lamin	Ctggacttcagaagaacattcgtgttctctggaagtccag (<u>SEQ ID NO: 25</u>)	Paul et al., Nature Bio-technology, 20:505-8 (2002).

Please amend Table 2 on pages 10-14 of the specification as follows :

Target Gene	shRNA Sequence / SEQ ID NO
UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 12	GAGATTGGTCCAGAACAGTTTCAAGAGAACTGTTCTGGACCAATCTC (<u>SEQ ID NO: 26</u>) GCCCTTCCGATCATGGTAGTTCAAGAGACTACCATGATCGGAAGGGC (<u>SEQ ID NO: 27</u>) TCTTTAGAATTCTTAAGTATTCAAGAGATACTTAAGAATTCTAAAGA (<u>SEQ ID NO: 28</u>) CATTAGCTATATCAACATGTTCAAGAGACATGTTGATATAGCTAATG (<u>SEQ ID NO: 29</u>)

UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 11	<p>ACCACAAACGGCGGAACGATTCAAGAGATCGTTCCGCCGTTTGTGGT (SEQ ID NO: 30)</p> <p>GAGGGTCTTGGAGGTCTTCTTCAAGAGAGAAGACCTCCAAGACCCTC (SEQ ID NO: 31)</p> <p>GTCCATGCCCGAGCCGTACATTCAAGAGATGTACGGCTGGGCATGGAC (SEQ ID NO: 32)</p> <p>GCTGGACACCCTCGTGGAGTTCAAGAGACTCCACGAGGGTGTCCAGC (SEQ ID NO: 33)</p>
UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 10	<p>GAATATCAGAGAATTGAGTTTCAAGAGAACTCAATTCTCTGATATTC (SEQ ID NO: 34)</p> <p>TGGACTTCATGAGGAAATGTTCAAGAGACATTTCTCATGAAGTCCA (SEQ ID NO: 35)</p> <p>TATTGAATATCCTGTGGACTTCAAGAGAGTCCACAGGATATTCAATA (SEQ ID NO: 36)</p> <p>TTGTACTGAGAGAACTGCTTCAAGAGAGCAGTTTCTCTCAGTACAA (SEQ ID NO: 37)</p>
HAUSP	<p>GATCAATGATAGGTTTGAATTCAAGAGATTCAAACCTATCATTGATC (SEQ ID NO: 38)</p> <p>GGAGTTTGAGAAGTTTAAATTCAAGAGATTTAACTTCTCAAACCTCC (SEQ ID NO: 39)</p> <p>GAACCTCTCGCTTGCTGAGTTCAAGAGACTCAGCAAGCGAGGAGTTC (SEQ ID NO: 40)</p> <p>CCGAATTTAACAGAGAGAATTCAAGAGATTCTCTCTGTAAATTCGG (SEQ ID NO: 41)</p>
UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 8	<p>GACAGCAGAAGAATGCAGATTCAAGAGATCTGCATTCTTCTGCTGTC (SEQ ID NO: 42)</p> <p>ATAAAGCTCAACGAGAACCTTCAAGAGAGGTTCTCGTTGAGCTTTAT (SEQ ID NO: 43)</p> <p>GGTGAAGTGGCAGAAGAATTTCAAGAGAATTCTTCTGCCACTTCACC (SEQ ID NO: 44)</p> <p>GTATTGCAGTAATCATCACTTCAAGAGAGTGATGATTACTGCAATAC (SEQ ID NO: 45)</p>
FLJ10785	<p>GATATGGGGTTCCATGTCATTCAAGAGATGACATGGAACCCCATATC (SEQ ID NO: 46)</p> <p>GGAGACATGGTTCTTAGTGTTCAAGAGACACTAAGAACCATGTCTCC (SEQ ID NO: 47)</p> <p>AGCACCAAGTTCGTCTCAGTTCAAGAGACTGAGACGAACTTGGTGCT (SEQ ID NO: 48)</p> <p>GATGCAACACTGAAAGAACTTCAAGAGAGTTCTTTCAGTGTTGCATC (SEQ ID NO: 49)</p>
KIAA0710	<p>GTCAATGGCAGTGATGATATTCAAGAGATATCATCACTGCCATTGAC (SEQ ID NO: 50)</p> <p>CCTGCTAGCTGCCTGTGGCTTCAAGAGAGCCACAGGCAGCTAGCAGG (SEQ ID NO: 51)</p> <p>CCACCTTTGCCAGAAGGAGTTCAAGAGACTCCTTCTGGCAAAGGTGG (SEQ ID NO: 52)</p>

ID NO: 52)
CCCTATTGAGGCAAGTGTCTTCAAGAGAGACACTTGCCTCAATAGGG (SEQ ID NO: 53)

FLJ12552/
FLJ14256 GAAGGAAACTTGCTGACGTTCAAGAGACGTCAGCAAGTTTTCCTTC (SEQ ID NO: 54)
CTCACCTGGGTCCATGAGATTCAAGAGATCTCATGGACCCAGGTGAG (SEQ ID NO: 55)
GCTGTCTTACCGTGTGGTCTTCAAGAGAGACCACACGGTAAGACAGC (SEQ ID NO: 56)
CCTGGACCGCATGTATGACTTCAAGAGAGTCATACATGCGGTCCAGG (SEQ ID NO: 57)

KIAA1203 GTCAATGGCAGTGATGATATTCAAGAGATATCATCACTGCCATTGAC (SEQ ID NO: 58)
CCTGCTAGCTGCCTGTGGCTTCAAGAGAGCCACAGGCAGCTAGCAGG (SEQ ID NO: 59)
CCACCTTTGCCAGAAGGAGTTCAAGAGACTCCTTCTGGCAAAGGTGG (SEQ ID NO: 60)
CCCTATTGAGGCAAGTGTCTTCAAGAGAGACACTTGCCTCAATAGGG (SEQ ID NO: 61)

FLJ23277 GGAAATCCGAATTGCTTGGTTCAAGAGACCAAGCAATTCGGATTTC (SEQ ID NO: 62)
CACATTTCTTCAAGTGTGGTTCAAGAGACCACACTTGAAGAAATGTG (SEQ ID NO: 63)
CAGCAGGATGCTCAAGAATTTCAAGAGAATTCTTGAGCATCCTGCTG (SEQ ID NO: 64)
GCTGAATACCTACATTGGCTTCAAGAGAGCCAATGTAGGTATTCAGC (SEQ ID NO: 65)

FLJ14914 (similar to UBP4) GGGCTTGTGCCTGGCCTTGTTCAGAGACAAGGCCAGGCACAAGCCC (SEQ ID NO: 66)
GCCTTGTCTGCCAAGAAGTTCAAGAGACTTCTTGGCAGGACAAGGC (SEQ ID NO: 67)
GATTGAAGCCAAGGGAACGTTCAAGAGACGTTCCCTTGGCTTCAATC (SEQ ID NO: 68)
TGGCGCCTGCTCCCCATCTTCAAGAGAAGATGGGGAGCAGGCGCCA (SEQ ID NO: 69)

UBIQUITIN CAR- GAACCAGCAGGCTCTGTGGTTCAAGAGACCACAGAGCCTGCTGGTTC (SEQ ID NO: 70)
BOXYL-TERMINAL
HYDROLASE GGAAGCATAATTATCTGCCTTCAAGAGAGGCAGATAATTATGCTTCC (SEQ ID NO: 71)
ISOZYME L5 AGAAGAAGATGCTTTTCACTTCAAGAGAGTGAAAAGCATCTTCTTCT (SEQ ID NO: 72)
CTTGCAGAGGAGGAACCCATTCAAGAGATGGGTTCCTCCTCTGCAAG (SEQ ID NO: 73)

UBIQUITIN CAR- GCAAACAATCAGCAATGCCTTCAAGAGAGGCATTGCTGATTGTTTGC (SEQ ID NO: 74)
BOXYL-TERMINAL
HYDROLASE TTGGACTGATTCATGCTATTTCAAGAGAATAGCATGAATCAGTCCAA (SEQ ID NO: 75)

ISOZYME L3 NO: 75)
CTGGCAATTCGTTGATGTATTCAAGAGATACATCAACGAATTGCCAG (SEQ ID
NO: 76)
TTAGATGGGCGGAAGCCATTTCAAGAGAATGGCTTCCGCCCATCTAA (SEQ ID
NO: 77)

UBIQUITIN CAR-BOXYL-TERMINAL HYDROLASE ISOZYME L1 GAGGAGTCTCTGGGCTCGGTTCAAGAGACCGAGCCCAGAGACTCCTC (SEQ
ID NO: 78)
GAGCTGAAGGGACAAGAAGTTCAAGAGACTTCTTGTCCCTTCAGCTC (SEQ ID
NO: 79)
TGTCGGGTAGATGACAAGGTTCAAGAGACCTTGTCATCTACCCGACA (SEQ ID
NO: 80)
CACAGCTGTTCTTCTGTTCTTCAAGAGAGAACAGAAGAACAGCTGTG (SEQ ID
NO: 81)

KIAA1891 / FLJ25263 GTGGAAGCCTTTACAGATCTTCAAGAGAGATCTGTAAAGGCTTCCAC (SEQ ID
NO: 82)
CAACAGCTGCCTTCATCTGTTCAAGAGACAGATGAAGGCAGCTGTTG (SEQ ID
NO: 83)
CCATAGGCAGTCCTCCTAATTCAAGAGATTAGGAGGACTGCCTATGG (SEQ ID
NO: 84)
TGTATCACTGCCACTGGTTTTCAAGAGAAACCAGTGGCAGTGATACA (SEQ ID
NO: 85)

FLJ14528 (similar to UBP8) CATGTTGGGCAGCTGCAGCTTCAAGAGAGCTGCAGCTGCCCAACATG (SEQ
ID NO: 86)
CACAACCTGGAGACCTGAAGTTCAAGAGACTTCAGGTCTCCAGTTGTG (SEQ ID
NO: 87)
GTATGCCTCCAAGAAAGAGTTCAAGAGACTCTTTCTTGAGGCATAC (SEQ ID
NO: 88)
CTTCACAGTACATTTCTCTTTCAAGAGAAGAGAAATGTACTGTGAAG (SEQ ID
NO: 89)

U4/U6 TRI SNRNP 65 kDa protein GTACTTTCAAGGCCGGGTTTCAAGAGAACCCCGGCCTTGAAAGTAC (SEQ
ID NO: 90)
CTTGGACAAGCAAGCCAAATTCAAGAGATTTGGCTTGCTTGTCCAAG (SEQ ID
NO: 91)
GACTATTGTGACTGATGTTTTCAAGAGAAACATCAGTCACAATAGTC (SEQ ID
NO: 92)
GGAGAACTTTCTGAAGCGCTTCAAGAGAGCGCTTCAGAAAGTTCTCC (SEQ ID
NO: 93)

XM_089437 GACGAGAGAAACCTTCACCTTCAAGAGAGGTGAAGGTTTCTCTCGTC (SEQ ID
NO: 94)
ACATTATTCTACATTCTTTTTCAAGAGAAAAGAATGTAGAATAATGT (SEQ ID
NO: 95)
AGATTGCGAAATGGATGTATTCAAGAGATACATCCATTTGCGAATCT (SEQ ID
NO: 96)
CATTCCCACCATGAGTCTGTTCAAGAGACAGACTCATGGTGGGAATG (SEQ ID
NO: 97)

KIAA1453 GATCGCCCGACACTTCCGCTTCAAGAGAGCGGAAGTGTCGGGCGATC ([SEQ ID NO: 98](#))
CCAGCAGGCCTACGTGCTGTTCAAGAGACAGCACGTAGGCCTGCTGG ([SEQ ID NO: 99](#))
GCCAGCTCCTCCACAGCACTTCAAGAGAGTGCTGTGGAGGAGCTGGC ([SEQ ID NO: 100](#))
CGCCGCCAAGTGGAGCAGATTCAAGAGATCTGCTCCACTTGGCGGCG ([SEQ ID NO: 101](#))

FLJ12697 GAAGATGCCCATGAATTCCTTCAAGAGAGGAATTCATGGGCATCTTC ([SEQ ID NO: 102](#))
CAAACAGGCTGCGCCAGGCTTCAAGAGAGCCTGGCGCAGCCTGTTTG ([SEQ ID NO: 103](#))
ACGGCCTAGCGCCTGATGGTTCAAGAGACCATCAGGCGCTAGGCCGT ([SEQ ID NO: 104](#))
CTGTAACCTCTCTGATCGGTTCAAGAGACCGATCAGAGAGGTTACAG ([SEQ ID NO: 105](#))

UBIQUITIN SPECIFIC PROTEASE 18 (USP18) TCTGTCAGTCCATCCTGGCTTCAAGAGAGCCAGGATGGACTGACAGA ([SEQ ID NO: 106](#))
TGAAGCGAGAGTCTTGTGATTCAAGAGATCACAAGACTCTCGCTTCA ([SEQ ID NO: 107](#))
GATGGAGTGCTAATGGAAATTCAAGAGATTTCCATTAGCACTCCATC ([SEQ ID NO: 108](#))
CCTTCAGAGATTGACACGCTTCAAGAGAGCGTGTCAATCTCTGAAGG ([SEQ ID NO: 109](#))

UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 20 CCTGACCACGTTCCGACTGTTCAAGAGACAGTCGGAACGTGGTCAGG ([SEQ ID NO: 110](#))
GAGTTCCTTCGCTGCCTGATTCAAGAGATCAGGCAGCGAAGGAACTC ([SEQ ID NO: 111](#))
GACTGCCTTGCTGCCTTCTTCAAGAGAAGAAGGCAGCAAGGCAGTC ([SEQ ID NO: 112](#))
CGCCGAGGGCTACGTACTCTTCAAGAGAGAGTACGTAGCCCTCGGCG ([SEQ ID NO: 113](#))

UBIQUITIN CARBOXYL-TERMINAL HYDROLASE 24 GGCGAGAAGAAAGGACTGTTTCAAGAGAACAGTCCTTTCTTCTCGCC ([SEQ ID NO: 114](#))
GGACGAGAATTGATAAAGATTCAAGAGATCTTTATCAATTCTCGTCC ([SEQ ID NO: 115](#))
GCACGAGAATTTGGAATCTTCAAGAGAGATTCCCAAATTCTCGTGC ([SEQ ID NO: 116](#))
CTACTTCATGAAATATTGGTTCAAGAGACCAATATTTTCATGAAGTAG ([SEQ ID NO: 117](#))

KIAA1594 GATAACAGCTTCTTGTCTATTCAAGAGATAGACAAGAAGCTGTTATC ([SEQ ID NO: 118](#))
GAGAATAGGACATCAGGGCTTCAAGAGAGCCCTGATGTCCTATTCTC ([SEQ ID NO: 119](#))
CTTGGAAGACTGAACCTGTTTCAAGAGAACAGGTTCACTCTTCCAAG ([SEQ ID NO: 120](#))
CAACTCCTTTGTGGATGCATTCAAGAGATGCATCCACAAAGGAGTTG ([SEQ ID NO: 121](#))

NO: 121)

KIAA1350 GATGTTGTCTCCAAATGCATTCAAGAGATGCATTTGGAGACAACATC (SEQ ID NO: 122)
CGTGGGGACTGTACCTCCCTTCAAGAGAGGGAGGTACAGTCCCCACG (SEQ ID NO: 123)
GTACAGCTTCAGAACCAAGTTCAAGAGACTTGGTTCTGAAGCTGTAC (SEQ ID NO: 124)

UBIQUITIN
CARBOXYL-
TERMINAL
HYDROLASE 25 GATGATCTTCAGAGAGCAATTCAAGAGATTGCTCTCTGAAGATCATC (SEQ ID NO: 125)
GGAACATCGGAATTTGCCTTTCAAGAGAAGGCAAATTCCGATGTTCC (SEQ ID NO: 126)
GAGCTAGTGAGGGACTCTTTTCAAGAGAAAGAGTCCCTCACTAGCTC (SEQ ID NO: 127)
GCAGGGTTCTTTAAGGCAATTCAAGAGATTGCCTTAAAGAACCCTGC (SEQ ID NO: 128)

UBIQUITIN
CARBOXYL-
TERMINAL
HYDROLASE 16 TCGATGATTCCTCTGAACTTCAAGAGAGTTTCAGAGGAATCATCGA (SEQ ID NO: 129)
GATAATGGAAATATTGAACTTCAAGAGAGTTCAATATTTCCATTATC (SEQ ID NO: 130)
GTTCTTCATTTAAATGATATTCAAGAGATATCATTTAAATGAAGAAC (SEQ ID NO: 131)
GTTAACAAACACATAAAGTTTCAAGAGAACTTTATGTGTTTGTTAAC (SEQ ID NO: 132)

USP9X GTTAGAGAAGATTCTTCGTTTCAAGAGAACGAAGAATCTTCTCTAAC (SEQ ID NO: 133)
GTTGATTGGACAATTAACTTCAAGAGAGTTTAATTGTCCAATCAAC (SEQ ID NO: 134)
GGTTGATACCGTAAAGCGCTTCAAGAGAGCGCTTTACGGTATCAACC (SEQ ID NO: 135)
GCAATGAAACGTCCAATGGTTCAAGAGACCATTGGACGTTTCATTGC (SEQ ID NO: 136)

USP9Y AGCTAGAGAAAATTCTTCGTTCAAGAGACGAAGAATTTTCTCTAGCT (SEQ ID NO: 137)
GATCCTATATGATGGATGATTCAAGAGATCATCCATCATATAGGATC (SEQ ID NO: 138)
GTTCTTCTTGTCAGTGAAATTCAAGAGATTTCACTGACAAGAAGAAC (SEQ ID NO: 139)
CTTGAGCTTGAGTGACCACTTCAAGAGAGTGGTCACTCAAGCTCAAG (SEQ ID NO: 140)

UBIQUITIN
CARBOXYL-
TERMINAL
HYDROLASE 5 GACCGGCCAGCGAGTCTACTTCAAGAGAGTAGACTCGCTGGCCGGTC (SEQ ID NO: 141)
GGACCTGGGCTACATCTACTTCAAGAGAGTAGATGTAGCCCAGGTCC (SEQ ID NO: 142)
CTCTGTGGTCCAGGTGCTCTTCAAGAGAGAGCACCTGGACCACAGAG (SEQ ID NO: 143)

	GACCACACGATTTGCCTCATTCAAGAGATGAGGCAAATCGTGTGGTC (SEQ ID NO: 144)
UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 26	<p>TGGCTTGTTTATTGAAGGATTCAAGAGATCCTTCAATAAACAAGCCA (SEQ ID NO: 145)</p> <p>GTGAATTTGGGGAAGATAATTCAAGAGATTATCTTCCCCAAATTCAC (SEQ ID NO: 146)</p> <p>CGCTATAGCTTGAATGAGTTTCAAGAGAACTCATTCAAGCTATAGCG (SEQ ID NO: 147)</p> <p>GATATCCTGGCTCCACACATTCAAGAGATGTGTGGAGCCAGGATATC (SEQ ID NO: 148)</p>
KIAA1097	<p>GAGCCAGTCGGATGTAGATTTCAAGAGAATCTACATCCGACTGGCTC (SEQ ID NO: 149)</p> <p>GTAAATTCTGAAGGCGAATTTCAAGAGAATTCGCCTTCAGAATTTAC (SEQ ID NO: 150)</p> <p>GCCCTCCTAAATCAGGCAATTCAAGAGATTGCCTGATTTAGGAGGGC (SEQ ID NO: 151)</p> <p>GTTGAGAAATGGAGTGAAGTTCAAGAGACTTCACTCCATTTCTCAAC (SEQ ID NO: 152)</p>
UBIQUITIN SPECIFIC PROTEASE 22 (USP22)	<p>GCTTGGA AAAATGCAAGGCGTTCAAGAGACGCCTTGCAATTTTCCAAGC (SEQ ID NO: 153)</p> <p>CTGCATCATAGACCAGATCTTCAAGAGAGATCTGGTCTATGATGCAG (SEQ ID NO: 154)</p> <p>GATCACCACGTATGTGTCCTTCAAGAGAGGACACATACGTGGTGATC (SEQ ID NO: 155)</p> <p>TGACAACAAGTATTCCTGTTCAAGAGACAGGGAATACTTGTTGTCA (SEQ ID NO: 156)</p>
UBIQUITIN- SPECIFIC PROCESSING PROTEASE 29	<p>GAAATATAAGACAGATTCCTTCAAGAGAGGAATCTGTCTTATATTTTC (SEQ ID NO: 157)</p> <p>CCCATCAAGTTTAGAGGATTTCAAGAGAATCCTCTAAACTTGATGGG (SEQ ID NO: 158)</p> <p>GGTGTCCCATGGGAATATATTCAAGAGATATATTCCCATGGGACACC (SEQ ID NO: 159)</p> <p>GAATGCCGACCTACAAAGATTCAAGAGATCTTTGTAGGTCGGCATTTC (SEQ ID NO: 160)</p>
CYLD	<p>CAGTTATATTCTGTGATGTTTCAAGAGAACATCACAGAATATAACTG (SEQ ID NO: 161)</p> <p>GAGGTGTTGGGGACAAAGGTTCAAGAGACCTTTGTCCCCAACACCTC (SEQ ID NO: 162)</p> <p>GTGGGCTCATTGGCTGAAGTTCAAGAGACTTCAGCCAATGAGCCCAC (SEQ ID NO: 163)</p> <p>GAGCTACTGAGGACAGAAATTCAAGAGATTTCTGTCCTCAGTAGCTC (SEQ ID NO: 164)</p>
UBIQUITIN CARBOXYL- TERMINAL	<p>TCAGCAGGATGCTCAGGAGTTCAAGAGACTCCTGAGCATCCTGCTGA (SEQ ID NO: 165)</p> <p>GAAGTTCTCCATCCAGAGGTTCAAGAGACCTCTGGATGGAGAACTTC (SEQ ID NO: 166)</p>

HYDROLASE 2 NO: 166)
GCCGGTCCCCACCAGCAGCTTCAAGAGAGCTGCTGGTGGGGACCGGC (SEQ ID NO: 167)
CACTCGGGAGTTGAGAGATTTCAGAGAATCTCTCAACTCCCGAGTG (SEQ ID NO: 168)

UBIQUITIN
SPECIFIC
PROTEASE 3
(USP3) NO: 169)
CTCAACACTAAACAGCAAGTTCAAGAGACTTGCTGTTTAGTGTTGAG (SEQ ID NO: 170)
GATTTCATTGGACAGCATATTCAAGAGATATGCTGTCCAATGAAATC (SEQ ID NO: 171)
CATGGGGCACCAACTAATTTTCAAGAGAAATTAGTTGGTGCCCCATG (SEQ ID NO: 172)

UBIQUITIN
CARBOXYL-
TERMINAL
HYDROLASE 23 NO: 173)
AGTTCAGTAGGTGTAGACTTTCAAGAGAAGTCTACACCTACTGAACT (SEQ ID NO: 174)
GAGTTCCTGAAGCTCCTCATTCAAGAGATGAGGAGCTTCAGGAACTC (SEQ ID NO: 175)
GGATTTGCTGGGGGCAAGGTTCAAGAGACCTTGCCCCCAGCAAATCC (SEQ ID NO: 176)

UBP-32.7 NO: 177)
CGCATTGTAATAAGAAGGTTTCAAGAGAACCTTCTTATTACAATGCG (SEQ ID NO: 178)
GGGAGGAAAATGCAGAAATTTCAAGAGAATTTCTGCATTTTCCTCCC (SEQ ID NO: 179)
TTACAAATTTAGGAAATACTTCAAGAGAGTATTTCTAAATTTGTAA (SEQ ID NO: 180)

HOMO SAPIENS
UBIQUITIN SPE-
CIFIC PROTEASE
13 (ISOPEP-
TIDASE T-3) NO: 181)
GTGATAACACAATAATGGTTCAAGAGACCATTAGTTGTGTTATCAC (SEQ ID NO: 182)
GTAGAGGAGAGTTCTGAAATTCAGAGATTTCAGAACTCTCCTCTAC (SEQ ID NO: 183)
GCCTCTAATCCTGATAAGGTTCAAGAGACCTTATCAGGATTAGAGGC (SEQ ID NO: 184)

UBIQUITIN
CARBOXYL-
TERMINAL
HYDROLASE 28 NO: 185)
GTATGGACAAGAGCGTTGGTTCAAGAGACCAACGCTCTTGTCCATAC (SEQ ID NO: 186)
CGAACCTTCTGGAACAGTTTCAAGAGAACTGTTCCAGAAGGGTTGCG (SEQ ID NO: 187)
GTGGCATGAAGATTATAGTTTCAAGAGAACTATAATCTTCATGCCAC (SEQ ID NO: 188)

UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 14	GGTGAACAAGGACAGTATCTTCAAGAGAGATACTGTCCTTGTTACC (<u>SEQ ID NO: 189</u>) GCAATAGAGGATGATTCTGTTCAAGAGACAGAATCATCCTCTATTGC (<u>SEQ ID NO: 190</u>) TCTGTGAATGCCAAAGTTCTTCAAGAGAGAACTTTGGCATTACAGA (<u>SEQ ID NO: 191</u>) CACACCAGGGAAGGTCTAGTTCAAGAGACTAGACCTTCCCTGGTGTG (<u>SEQ ID NO: 192</u>)
DUB1	GCAGGAAGATGCCCATGAATTCAAGAGATTCATGGGCATCTTCCTGC (<u>SEQ ID NO: 193</u>) GAATGTGCAATATCCTGAGTTCAAGAGACTCAGGATATTGCACATTC (<u>SEQ ID NO: 194</u>) TGGATGATGCCAAGGTCACCTTCAAGAGAGTGACCTTGGCATCATCCA (<u>SEQ ID NO: 195</u>) GCTCCGTGCTAAACCTCTCTTCAAGAGAGAGAGGTTTAGCACGGAGC (<u>SEQ ID NO: 196</u>)
MOUSE USP27 HOMOLOG	GCCTCCACCTCAACAGAGGTTCAAGAGACCTCTGTTGAGGTGGAGGC (<u>SEQ ID NO: 197</u>) CTGCATCATAGACCAAATCTTCAAGAGAGATTTGGTCTATGATGCAG (<u>SEQ ID NO: 198</u>) GATCACTACATACATTTCTTCAAGAGAGGAAATGTATGTAGTGATC (<u>SEQ ID NO: 199</u>) GTAAAGAGAGCAGAATGAATTCAAGAGATTCATTCTGCTCTCTTTAC (<u>SEQ ID NO: 200</u>)
UBIQUITIN CARBOXYL- TERMINAL HYDROLASE 4	CGCGGGGCGCAGTGGTATCTTCAAGAGAGATACTGCGCCCCGCG (<u>SEQ ID NO: 201</u>) CAGAAGGCAGTGGGGAAGATTCAAGAGATCTTCCCCACTGCCTTCTG (<u>SEQ ID NO: 202</u>) GCCTGGGAGAATCACAGGTTTCAAGAGAACCTGTGATTCTCCAGGC (<u>SEQ ID NO: 203</u>) ACCAGACAAGGAAATACCCTTCAAGAGAGGGTATTTCTTGTCTGGT (<u>SEQ ID NO: 204</u>)
TRE-2	CACATCCACCACATCGACCTTCAAGAGAGGTGCGATGTGGTGGATGTG (<u>SEQ ID NO: 205</u>) GTCACAACCCAAGACCATGTTCAAGAGACATGGTCTTGGGTTGTGAC (<u>SEQ ID NO: 206</u>) CTCAACAGGACAAATCCCATTCAAGAGATGGGATTTGTCCTGTTGAG (<u>SEQ ID NO: 207</u>) TAGATCAATTATTGTGGATTTCAAGAGAATCCACAATAATTGATCTA (<u>SEQ ID NO: 208</u>)
UBIQUITIN CAR- BOXYL-TERMINAL HYDROLASE 15 (UNPH-2).	GGAACACCTTATTGATGAATTCAAGAGATTCATCAATAAGGTGTTCC (<u>SEQ ID NO: 209</u>) CTTTAACAGAAATTGTCTCTTCAAGAGAGAGACAATTTCTGTAAAG (<u>SEQ ID NO: 210</u>) CCTATGCAGTACAAAGTGGTTCAAGAGACCACTTTGTACTGCATAGG (<u>SEQ ID NO: 211</u>) GATCTTTTCTTGCTTTGGATTCAAGAGATCCAAAGCAAGAAAAGATC (<u>SEQ ID NO: 212</u>)

NO: 212)

KIAA1372 CAGCATCCTTCAGGCCTTATTCAAGAGATAAGGCCTGAAGGATGCTG (SEQ ID NO: 213)
GATAGTGACTCGGATCTGCTTCAAGAGAGCAGATCCGAGTCACTATC (SEQ ID NO: 214)
GACATCACAGCCCGGGAGTTTCAAGAGAACTCCCGGGCTGTGATGTC (SEQ ID NO: 215)
GGACACAGCCTATGTGCTGTTCAAGAGACAGCACATAGGCTGTGTCC (SEQ ID NO: 216)

BRCA1
ASSOCIATED
PROTEIN-1 GTGGAGGAGATCTACGACCTTCAAGAGAGGTCGTAGATCTCCTCCAC (SEQ ID NO: 217)
CTCTTGTGCAACTCATGCCTTCAAGAGAGGCATGAGTTGCACAAGAG (SEQ ID NO: 218)
ACAGGGCCCCTGCAGCCTCTTCAAGAGAGAGGCTGCAGGGGCCCTGT (SEQ ID NO: 219)
GAAGACCTGGCGGCAGGTGTTCAAGAGACACCTGCCGCCAGGTCTTC (SEQ ID NO: 220)